



7-5mm Reducing Gas Block Connector

Product Code: 74665



Product Description

The Gas Block connector provides a tube to tube joint and seal as well as providing a low-pressure gas seal between the inner micro duct and the fibre bundle. Gas blocks are suitably sized to match the tube diameters. When the fittings are pushed onto a clean-cut tube end, they make an airtight seal with internal O-rings. After installation of the fibre, the gas block seal is activated by turning the nut clockwise. If the tube is pulled away from the connector, internal teeth and a tapered body cause the tube to be gripped tighter. Removal of the tube is achievable by pressing the collet inwards.

Product Application

The gas block connector is designed to be fitted at the point where the external network 7mm microducts connects to the internal network 5mm microduct and provides a seal between the installed fibre unit and the inner area of the microduct. The internal gas blocking seal can be used on Emtelles 2fu, 4fu, 6fu, 8fu, 12fu & 24fu.

Technical Specification

Materials

Body: Transparent HP Polymer

Cartridge: Nickel Plated Brass

Collet: Techno Polymer

Seal: NBR

Lock Claw: Stainless Steel

Cable Seal: Silicon

Compression Nut: Techno Polymer

Back Ring: Techno Polymer

Dimensions

Length: 58.6mm **Width:** 20.5mm

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Operating Performance

Working Pressure: 20 Bar
Short Term Blowing Pressure: 25 Bar
Burst Pressure: >45 Bar
Gas Blocking: 0.5 Bar
Water Ingress: 0.4 Bar
Temperature: -20°C - +50°C

Mechanical Performance tests

The Gas Block Connectors withstand the following mechanical and environmental tests at ambient temperature.

Tensile: The correct size microducts are fully inserted into the connector and mounted in a tensile device and secured via the microducts. The tensile device is set at a separation speed of 25mm/min and is carried out until the microducts are removed from the connector. The maximum load during the test is recorded and must be above 65N for PE microducts and 45N for Flame Retardant microducts.

Leak Test 1 (Free State): The connector is pressurised with air to 15 bar and placed under water to monitor air leakage. The maximum permissible leakage is 1cc/min or 2cc/min after 10 reinsertions of the microduct. 1 bubble every 3 seconds represents a leak rate of 1cc/min.

Leak Test 2 (Gas blocked): The connector assembly is pressurised to 0.5 bar and air supply is locked off. The pressure is monitored via a pressure gauge for 48hrs and there shall be no leakage.

Burst Pressure: Pressure is applied via hydraulic water pressure and is increased through to failure of the connector. The increase in pressure is applied at a rate, which will result in failure in approximately 1 minute. The connector shall seal at internal pressures up to 25 Bar without sustaining damage, or permanent deformation, and shall remain connected to the duct. The pressure at point of failure is recorded.

Pressurisation: The connector assembly is pressurised to 15 bar for 4 hours. During this time, there shall be no damage or deformation and the microducts shall remain connected to the connector.

Water Ingress: The connector assembly is externally pressurised within a water pressure chamber to 0.4 bar for 24 hours. During this time, there shall be no ingress of water inside the connector assembly.

Packaging and Labelling

All products suitably packaged in recyclable materials and clearly labelled with Emtelle Product Code and Description where possible.

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